

Micronet SP900 Series

# RadioLink<sup>TM</sup> Wireless LAN

Flexible, mobile, secure and reliable connections, without wires

Micronet SP900 Series of RadioLink Wireless LAN product family enables users to establish and maintain a wireless LAN throughout or between buildings, without the limitation of wires and cables. Connectivity no longer implies attachment. Mobility becomes possible. Local areas are measured not in feet or meters, but miles or kilometers.

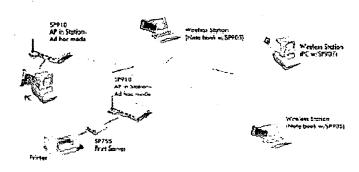
Micronet SP900 Series work in DSSS (Direct Sequence Spread Spectrum) modulation method, operating in the ISM (Industrial Scientific and Medical) band 2.4-2.484 GHz, a frequency that worldwide unlicensed. Fully compatible with IEEE 802.11b standard, Micronet SP900 Series ensure the inter-operations among different venders.

Micronet SP900 Series provide full product lines. The RadioLink Adapters equip with 3 different interfaces, including PCMCIA, PCI and USB. The various RadioLink Access Point models provide various enhanced features that include Access point, Inter-Building Bridge and Routing. Micronet also provides high-gain antennas for extending the coverage of your Wireless LAN.

#### Key Features

- Compliant with IEEE802.11b
   Wireless LAN standard
- Auto data rate selection at 11, 5.5, 2 and 1 Mbps
- Operating at the unlicenced ISM band with multi-channel frequency from 2.4 GHz to 2.484 GHz
- Wide coverage range upto several miles, depending on the environment and the antenna selected Rock-solid security by WEP encription and MAC Control List
- Enhanced features for various opplications, such as Pure Wireless Network, Wireless-Ethernet L4N, Inter-Budding (L4N-to-L4N) or Wireless Internet access

### Application Example 1. Pure Wireless Network



The simplest Wireless LAN configuration is an independent (or peer-to-peer) Wireless LAN that connects a set of PCs or Note Books with wireless adapters like SP905, SP906 and SP907. Any time two or more wireless adapters are within range of each other, they can set up an independent network These on-demand networks typically require no administration or pre-configuration. We also call it Ad-hoc Wireless LAN.

# Micronet RadioLink™ Wireless LAN - Reliab

#### Wireless Glossary

#### IEEE 802.11b

The IEEE standard that specifies a carrier sense media access control and physical layer specifications for 5.5 and 11 Mbps wireless L4Ns.

#### Access Point

A wireless L4V transceiver that acts as a center point and bridges between wireless and wired networks.

#### Bridge

A device used to connect LANs by forwarding packets across connections at the Media Access Control (MAC) layer.

#### Roaming

Moving seamlessly from one AP coverage area to another with no loss in connectivity.

#### Uni-Directional Antenna

An antenna that concentrates transmission power into a direction thereby increasing coverage distance at the expense of coverage angle.

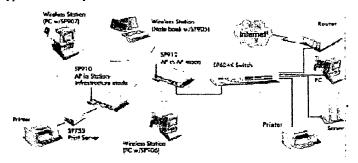
#### Omni-Directional Antenna

An antenna that provides a 360 degree transmission pattern. These types of antennos are used when coverage in all directions is required.

#### Wired Equivalent Privacy

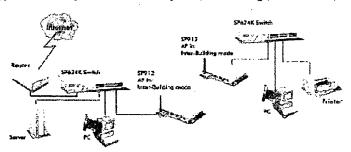
WEP encryption is defined by the 802.11 standard to prevent (1) access to the network by "intruders" using similar wireless L4N equipment and (2) capture of wireless L4N traffic through eavesdropping.

#### Application Example 2. Wireless - Ethernet LAN



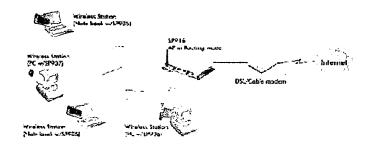
In this application, multiple Access Points link the Wireless LAN to the wired network and allow users to efficiently share network resources. The Access Point not only provides communication with the wired network but also mediate wireless network traffic. We also call it infrastructure Wireless LAN

#### Application Example 3. Point-to-Multipoint Inter-Building (LAN-to-LAN)



In this application, multiple LANs can links together through Access Points with Inter-building bridge function. Users in different building could share network resources. The distance between different locations can extend to a few miles through Micronet high-gain Antenna.

#### Application Example 4. Internet Access with Wireless DSL/Cable Router



This is the most convenient method for users to access Internet wirelessly. The Access Point with Routing function can connect to DSL/Cable modem so that they can provide Wireless Stations with Internet entries.

# d Secure Connection, without Wire



## Features and Benefits

FEATURE:	BENEFIT A SECOND OF THE SECOND
FASTE ANTERENAME WILL	LESSIAN CONNECTION
Dynamic Data-Rate	Micronet RadioLink Wireless LAN products support 1, 2, 5.5 and 11
	Mbps to ensure reliability of data transmission, and the most suitable
	data rate will be determined according to the strength of signal.
Roaming	Micronet RadioLink Wireless LAN products support seamless roaming
Roaming	function that allow continuous communication and automatically
	switching among different Access Point when user moving.
SEANDARD GOMESTATE	
IEEE802.11b Standard	Micronet RadioLink Wireless LAN products are fully compliant with
Compliant	the IEEE802.11b Wireless LAN standard, which ensures the inter-
	operations among different vendors.
SECURITY SECTION	
MAC Address Control List	The List let you specify the MAC addresses of the users allowed onto
	your wireless network:
WEP Encryption	Micronet RadioLink Wireless LAN features WEP (Wired Equiva lent
	Privacy) Encryption, which secure network data by encoding it.
	between Access Point and the client devices.
HEALTH CHANGE STATES	NUMERATURES - A CONTROL OF THE CONTR
Access Point Mode	Wireless stations (e.g. notebook with wireless PCMCIA SP905) could
	communicate with the wired Ethernet through Access Point in this
	mode. Thus, the wireless LAN and the Ethernet can co-exist and
to pillion the color and combined the mechanisms of colorings amplicate managing about	communicate with each other.
Inter-Building Bridge Mode	Micronet Access Point may serve as a wireless bridge for point-to-
(LAN-to-LAN) (SP912 only)	point and point-to-multipoint inter-building LAN connections. With
	the choice of antenna, the distance among buildings can be a few
	miles.
Routing Mode	Micronet Access Point may serve as a Wireless DSL/Cable Router, for
·	wireless stations to access Internet wirelessly.
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Windows-Based Utility	User can easily establish the Wireless Environment through the
· ·	user friendly configuration utility.
SNMP and Web Management	User can use existing SNMP-based management platform or Web
-	Browser like Internet Explorer to control and monitor Micronet Access
	Point.
Site-Survey Utility	Micronet RadioLink Wireless LAN Adapters provide Site-Survey tools
	in utility for trouble-shooting and environment survey.
Uni-Directional or	With Micronet uni-directional and omni-directional antennas, low-
Omni-Directional Antenna	loss cable, mounting hardware and other accessories, installers can
and Low-Loss Cable	customize a wireless solution that meets the requirements of even the
	most challenging applications, upto a few miles distance.
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Windows and Linux	Micronet RadioLink Wireless LAN products support all popular
THOOMS BING ENTUR	Operation System like Windows 95/98/2000/NT/ME, and Linux.
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Access Point with Bridge



Access Point with Router



SP905 PCMCIA Adapter



SP906 PCI Adapter



SP90" USB Adapter



SP920 Series
Antenna and Cables



#### SPECIFICATIONS AND PRODUCT FEATURES RadioLink 11Mbps Access Point Model SP912 SP916 Standard IEEE 802.11 & IEEE 802.11b Data Rate 11, 5.5, 2 and 1 Mbps SMA connector for external antenna Built-in Antenna AP mode Routing mode N/A Yes Inter-building Bridge Yes N/A Mode Roaming Yes WEP Encryption, Access control list Security 250m in open space, a few Coverage 200m in open space kilometers with selected antenna Windows-based Utility, Telnet, Web management, SNMP Configuration RadioLink 11Mbps Wireless LAN Adapter

Model	SP905	SP906	SP907
Standard	IEEE 802.11 & IEEE 802.11b		
Data Rate	11, 5.5, 2 and 1 Mbps		
Antenna	Built-in		
Interface	PCMCIA	PCI	USB
Driver Support	Win95/98/2000/ NT/ME, Linux	Win98/2000/NT/ME	Win98/2000/ME
Roaming	Yes		
Coverage	250m in open space		
Security	. WEP Encryption		
RadioLink Antenna			
Model	SP920H		SP920K
Туре	Uni-directional, Y	agi-type O	mni-directional
F	2.404- 2.504-		

Model	SP920H	SP920K
Туре	Uni-directional, Yagi-type	Omni-directional
Frequency	2.4GHz~	2.5GHz
Gain	13.9dB	3.0 dB
E-Plane	30 degree	38 degree
H-Plane	34 degree	Omni, 360 degree
Connector	N-type, f	emale

ORDERING INFORMATION		
Model	Description	
SP905	2/11 Mbps PCMCIA Wireless LAN Adapter with built-in Antenna	
SP906	2/11 Mbps PCI Wireless LAN Adapter with built-in Antenna	
SP907	2/11 Mbps USB Wireless LAN Adapter with built-in Antenna	
SP910	2 Mbps Wireless LAN Access Point	
SP912	2/11 Mbps Wireless Access Point with Bridge, External Antenna	
SP916	2/11 Mbps Wireless Access Point with Router, Internal Antenna	
SP920H	Uni-Directional Antenna, 13.9 dB	
SP920K	Omni-Directional Antenna, 3 dB	
SPK900	2/11 Mbps RadioLink Wireless LAN Kit (SP916 x1and SP905 x 2)	
M906	2/11 Mbps Wireless LAN PCI Card Reader .	
M907	2/11 Mbps Wireless LAN USB Card Reader	
C920B	Low-loss cable for SP910/SP912, 0.3M, MMCX to SMA	
C920C	Low-loss cable for SP910/SP912, 10M, N(Female) to N(Male)	

#### Headquarter

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Manufacturer and Exporter

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### COMPANION PRODUCTS

Consider these related 10/100/1000 Mbps Micronet products as a factor in your network planning.

Ethernet Adaptor for Desktop PC		
Pocket Ethernet Adapter		
PCMCIA Ethernet		
PCMCIA Ethernet + Modem		
PCMCIA Modem		
Ethernet Hub		
Ethernet Switch		
Ethernet Repeater		
Ethernet Transceiveter		
Ethernet Converter		
Wireless LAN		
Print Server		
Broadband Communication		
Internet IP Sharer		
Internet IP Telephony		
Modem		
USB Device Family		
SNMP Network Management		
RMON Network Management		
Web-Based Network Management		



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